



# Commodity Guide

## Brewers Wet Grains

### Product Description

**Brewers Wet Grains (BWG)** is the portion of barley malt and grain adjuncts (usually corn) that remain following a hot water steeping (cooking). Hot water steeping converts cereal carbohydrates (mainly starches) into soluble sugars. The liquid (known as wort) containing the fermentable solubilized sugar, is drawn off, cooled and used in the brewing process. The remaining solids are known as BWG.

#### TYPICAL ANALYSIS\*:

		DM	As Fed
Dry Matter	%	100.0	20.0
Crude Protein	%	27.0	5.4
Fat	%	5.0	1.0
Crude Fiber	%	20.0	4.0
ADF	%	49.4	9.9
NDF	%	67.0	61.0
NE <sub>L</sub> (Rum) Mcal/lb.		0.80	0.16
NE <sub>M</sub> (Rum) Mcal/lb.		0.80	0.16
NE <sub>G</sub> (Rum) Mcal/lb.		0.55	0.05
TDN	%	77.0	16.9
Calcium	%	0.35	0.07
Phosphorus	%	0.60	0.12

\*Listed data are average values only and not considered as guarantees, expressed, or implied, nor as a condition of sale. For guaranteed specifications refer to label.

### Storage and Handling

BWG can be readily kept for a short period (up to 3 weeks) or ensiled for longer storage. Grains going into “long term” storage should be treated according to Company recommendations. “Short term” grains should be kept off the ground, in a pit silo, on a cement slab, wooden platform or in a simply constructed wooden box. Minimize daily surface exposure to maintain good palatability and maximize heat retention in winter.

### Use and Application

BWG are an excellent protein and energy source for ruminants and can readily make up to 20-30% of the ration dry matter. BWG are a significant source of rumen “by-pass” protein (Undegradable Intake Protein, often abbreviated as UIP). BWG protein is 49% undegradable in the rumen compared with soybean meal which is about 35% rumen undegradable. The removal of starches and rapidly fermentable sugars during steeping lowers the potential for acidosis. In a well-balanced feeding program BWG can be used a roughage extender. BWG is a good source of available phosphorus, selenium and further compliments the rations by improving palatability. BWG is low in potassium, which requires attention in ration formulation however the low level of this mineral makes BWG particularly attractive with high potassium forages, allowing overall potassium reduction to more acceptable levels.

**CAUTION:** Freshly delivered BWG may be quite hot and cause severe burns. Use extreme caution and ensure animals and children are prevented access to stored product until cooling takes place.